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Analysis of oscillations with 3 and 3+N neutrinos

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The vast majority of solar, atmospheric, reactor and accelerator neutrino data are presently well explained by the hypothesis that neutrinos are massive and that flavor conversion occurs among the three known neutrino flavors. However, a few experiments seem to indicate deviations from this scenario. In this talk I will first present an up-to-date global analysis of neutrino data in the framework of three-neutrino oscillations, and then I will discuss the case where new sterile neutrino states exist in addition to the three active ones.

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